



University of St Andrews

School of Computer Science

DISTINGUISHED LECTURE SERIES 2006/07

**If Software is the Solution, What is the Problem?
The Discipline of Requirements Engineering**

By

**Professor Bashar Nuseibeh
The Open University**

Friday, 1st December 2006

*2nd Year Laboratory, Jack Cole Building
North Haugh, St Andrews*

Biography

Bashar Nuseibeh is a Professor and Director of Research in Computing at The Open University (OU), UK, and a Visiting Professor at Imperial College London and the National Institute of Informatics, Tokyo. Previously he was a Reader at Imperial College and Head of its Software Engineering Laboratory. His research interests are in software requirements engineering and design, software process modelling and technology, and technology transfer. He has published over 100 refereed papers and consulted widely with industry, working with organisations such as the UK National Air Traffic Services (NATS), Texas Instruments, Praxis Critical Systems, Philips Research Labs, and NASA. He has also served as Principal or Co-Investigator on a number of UK and EU-funded research projects on software engineering, security engineering, and learning technologies.

Professor Nuseibeh is Editor-in-Chief of the *Automated Software Engineering Journal*, Associate Editor of *IEEE Transactions on Software Engineering*, and a member of the Editorial Board of five other international journals. He was a founder and Chairman of the British Computer Society's Requirements Engineering Specialist Group (1994-2004), and is currently Chair of IFIP Working Group 2.9 (Software Requirements Engineering). He has served as Programme Chair of major conferences in his field, including the 13th IEEE International Conference on Automated Software Engineering (ASE'98), the 5th IEEE International Symposium on Requirements Engineering (RE'01), and the 27th ACM/IEEE International Conference on Software Engineering (ICSE-2005).

Professor Nuseibeh holds an MSc and PhD in Software Engineering from Imperial College London, and a First Class Honours BSc in Computer Systems Engineering from the University of Sussex, UK. He received a 2002 Philip Leverhulme Prize for outstanding research achievements in software engineering, an ICSE-2003 "Most Influential Paper" award, and a number of other best paper and service awards. In 2005 he was awarded a Senior Research Fellowship of the Royal Academy of Engineering and The Leverhulme Trust. He is a Fellow of the British Computer Society and a Chartered Engineer (C.Eng.).

Programme

Over the course of three lectures, we will look at the discipline of requirements engineering, for the development of software-intensive systems. We will begin with a review of this multi-disciplinary field in the first lecture, examine some problem-oriented analysis techniques in the second lecture, and reflect on new research directions in the emerging field of security requirements engineering in the third lecture.

- 10.00 – 11.00** **A Requirements Engineering Roadmap**
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- 11.00 – 11.30** *Coffee*
Coffee area
Jack Cole Building
- 11.30 – 12.30** **Problem-Oriented Requirements Engineering**
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- 14.00 – 15.30** **Research Directions:**
 Security requirements engineering
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